Alzheimer Image Classification
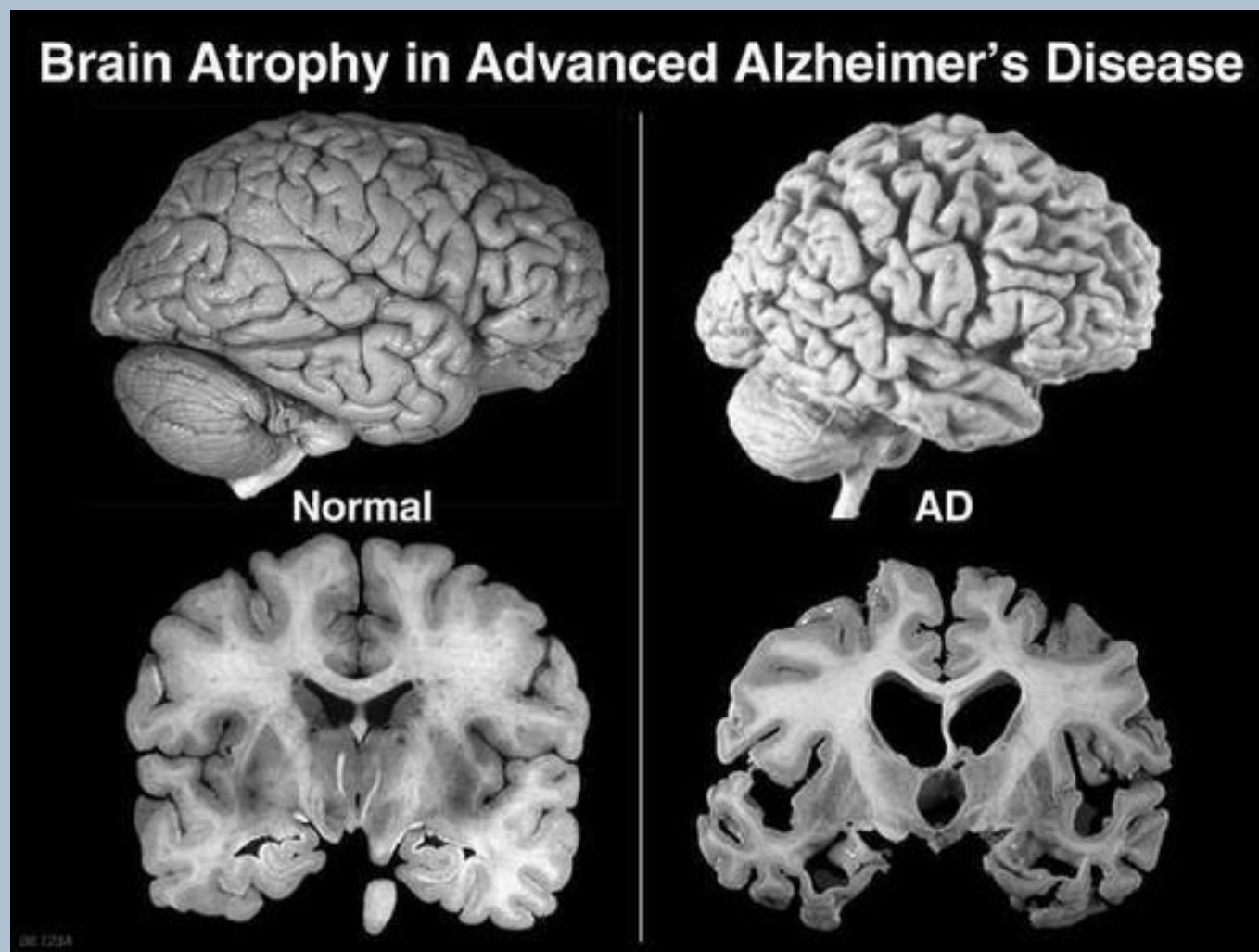
Amalio Gómez

AI
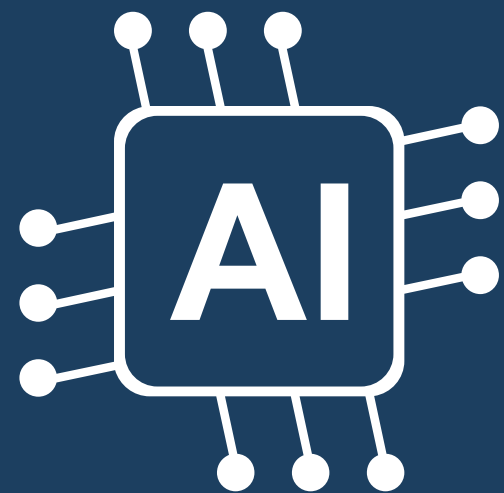
Tensorflow

What is the project about?

Brain Atrophy in Advanced Alzheimer's Disease
Normal   AD

Classification of images in one of these categories

Non-demented

Very-mild   Mild   Moderate

Workflow

Augmented Data
33984 Images Total
Split

27188 images
TRAIN SET

6796 images
VALIDATION SET

Convolutional
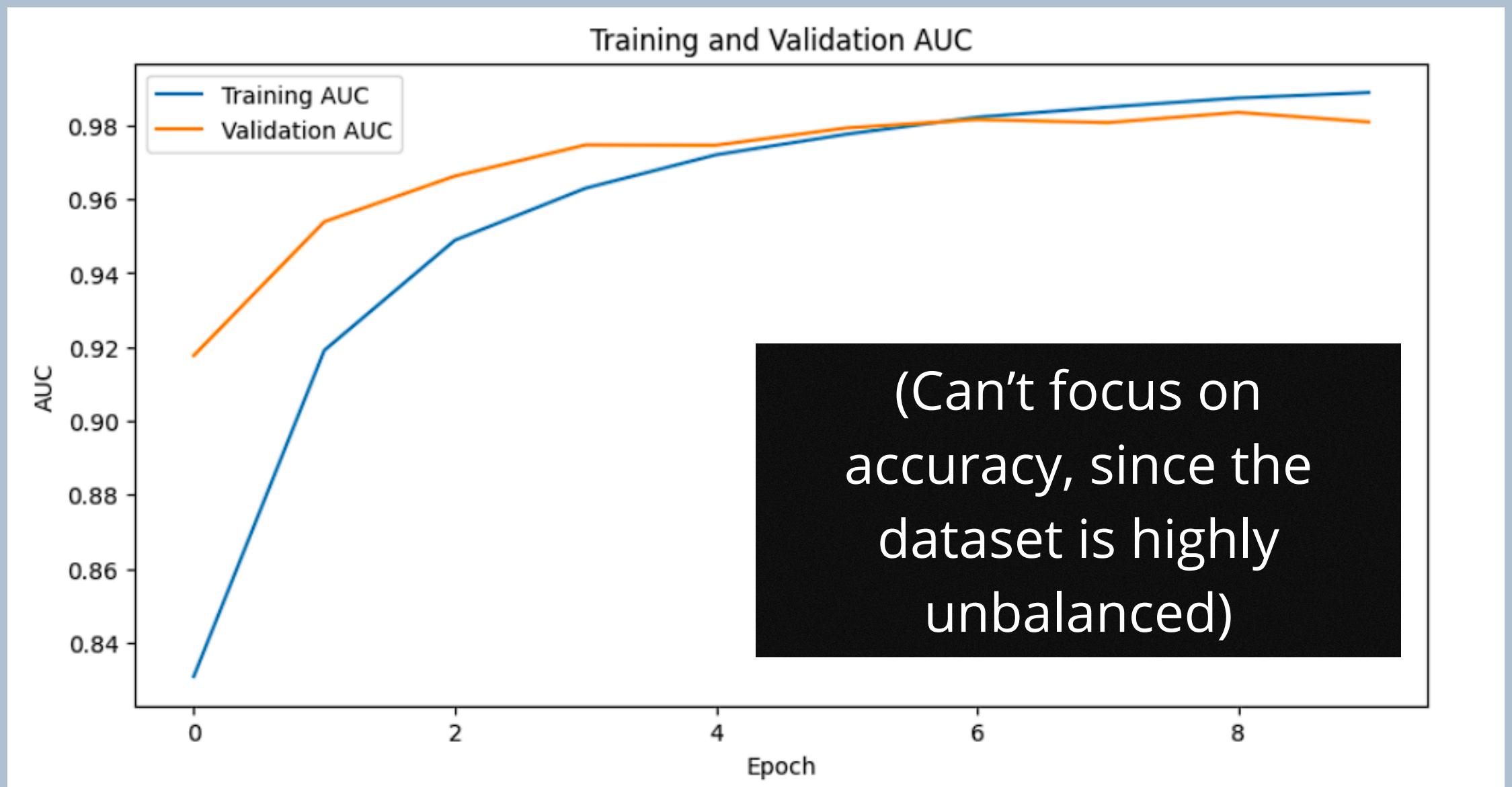
Neural Network
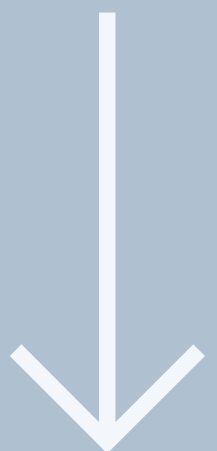
EVALUATION

6400 New Unseen

Images

Results

TRAIN AND VALIDATION ROC AUC

Training and Validation AUC

(Can't focus on accuracy, since the dataset is highly unbalanced)

Test: 6400 original images

Test Loss: 0.091
Test Accuracy: 96%
Test Roc Auc: 99%

Thank you!

Check the project on my GitHub

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